

Title (en)
ENGINE WITH CONTROLLED AUTO-IGNITION

Title (de)
MOTOR MIT GESTEUERTER SELBSTZÜNDUNG

Title (fr)
MOTEUR A AUTO-ALLUMAGE REGULE

Publication
EP 1407124 A1 20040414 (EN)

Application
EP 02730499 A 20020613

Priority
• GB 0202689 W 20020613
• GB 0115812 A 20010628

Abstract (en)
[origin: GB2376985A] A four stroke spark ignition internal combustion engine (10) is capable of operating in a controlled auto-ignition mode. When an engine cylinder is operated in the controlled auto-ignition mode, the exhaust valve is opened 30° during substantially the whole of the exhaust stroke and maintained open for substantially the whole of the intake stroke. While the intake valve is opened 32 during the intake stroke, the charge is admitted into the cylinder in two streams, one stream comprising exhaust gases entering the cylinder from the exhaust system and the other stream comprising a fresh air charge being admitted through the intake system.

IPC 1-7
F02B 11/00; **F02D 13/02**

IPC 8 full level
F02B 1/12 (2006.01); **F02B 47/08** (2006.01); **F02D 13/02** (2006.01); **F02D 41/02** (2006.01); **F02D 41/30** (2006.01); **F02M 25/07** (2006.01)

CPC (source: EP)
F02B 47/08 (2013.01); **F02D 13/0261** (2013.01); **F02D 41/006** (2013.01); **F02D 41/3035** (2013.01); **F02M 26/01** (2016.02); **F02B 1/12** (2013.01); **F02D 2041/001** (2013.01); **Y02T 10/12** (2013.01); **Y02T 10/40** (2013.01)

Citation (search report)
See references of WO 03002857A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
GB 0213567 D0 20020724; **GB 2376985 A 20021231**; DE 60220916 D1 20070809; DE 60220916 T2 20071018; EP 1407124 A1 20040414; EP 1407124 B1 20070627; GB 0115812 D0 20010822; JP 2004530838 A 20041007; JP 4139772 B2 20080827; WO 03002857 A1 20030109

DOCDB simple family (application)
GB 0213567 A 20020613; DE 60220916 T 20020613; EP 02730499 A 20020613; GB 0115812 A 20010628; GB 0202689 W 20020613; JP 2003508813 A 20020613